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Database:	US Patents Full-Text Database US Pre-Grant Publication Full-Text Database JPO Abstracts Database EPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins
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DATE: Wednesday, November 06, 2002 Printable Copy Create Case

1 of 2

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$DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD;\ PLUR=YES;\ OP=OR$					
<u>L33</u>	119 and L29	22	<u>L33</u>		
<u>L32</u>	19 and L29	42	<u>L32</u>		
<u>L31</u>	110 and L29	57	<u>L31</u>		
<u>L30</u>	L29 and data same coherency	9	<u>L30</u>		
<u>L29</u>	L28 and backup and retrieval	125	<u>L29</u>		
<u>L28</u>	network near file near system	955	<u>L28</u>		
<u>L27</u>	L26 and media near library	15	<u>L27</u>		
<u>L26</u>	L24 and stor\$ near devices	618	<u>L26</u>		
<u>L25</u>	L24 and attach\$ near stor\$ near devices	9	<u>L25</u>		
<u>L24</u>	L23 and server	1610	<u>L24</u>		
<u>L23</u>	backup and retrieval	3969	<u>L23</u>		
<u>L22</u>	((709/321)!.CCLS.)	256	<u>L22</u>		
<u>L21</u>	(((711/135)!.CCLS.))	181	<u>L21</u>		
<u>L20</u>	(((711/3)!.CCLS.))	498	<u>L20</u>		
<u>L19</u>	(((7·11/\$)!.CCLS.))	14934	<u>L19</u>		
<u>L18</u>	(((709/300)!.CCLS.))	0	<u>L18</u>		
<u>L17</u>	(((709/226)!.CCLS.))	742	<u>L17</u>		
<u>L16</u>	(((709/219)!.CCLS.))	1479	<u>L16</u>		
<u>L15</u>	(((709/216)!.CCLS.))	243	<u>L15</u>		
<u>L14</u>	(((709/213)!.CCLS.))	502	<u>L14</u>		
<u>L13</u>	(((709/204)!.CCLS.))	640	<u>L13</u>		
<u>L12</u>	(((709/203)!.CCLS.))	2462	<u>L12</u>		
<u>L11</u>	(((709/100)!.CCLS.))	603	<u>L11</u>		
<u>L10</u>	(((709/\$)!.CCLS.))	20289	<u>L10</u>		
<u>L9</u>	(((707/\$)!.CCLS.))	17092	<u>L9</u>		
<u>L8</u>	(((707/204)!.CCLS.))	540	<u>L8</u>		
<u>L7</u>	(((707/203)!.CCLS.))	717	<u>L7</u>		
<u>L6</u>	(((707/201)!.CCLS.))	690	<u>L6</u>		
<u>L5</u>	(((707/104.1)!.CCLS.))	1969	<u>L5</u>		
<u>L4</u>	(((707/100)!.CCLS.))	1268	<u>L4</u>		
<u>L3</u>	(((707/10)!.CCLS.))	2478	<u>L3</u>		
<u>L2</u>	(((707/9)!.CCLS.))	621	<u>L2</u>		
<u>L1</u>	((707/1)!.CCLS.)	1917	<u>L1</u>		

END OF SEARCH HISTORY

WEST Search History

DATE: Wednesday, November 06, 2002

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L32	19 and L29	42	L32		
L31	110 and L29	57	L31		
L30	L29 and data same coherency	9	L30		
L29	L28 and backup and retrieval	125	L29		
L28	network near file near system	955	L28		
L27	L26 and media near library	15	L27		
L26	L24 and stor\$ near devices	618	L26		
L25	L24 and attach\$ near stor\$ near devices	9	L25		
L24	L23 and server	1610	L24		
L23	backup and retrieval	3969	L23		
L22	((709/321)!.CCLS.)	256	L22		
L21	(((711/135)!.CCLS.))	181	L21		
L20	(((711/3)!.CCLS.))	498	L20		
L19	(((711/\$)!.CCLS.))	14934	L19		
L18	(((709/300)!.CCLS.))	0	L18		
L17	(((709/226)!.CCLS.))	742	L17		
L16	(((709/219)!.CCLS.))	1479	L16		
L15	(((709/216)!.CCLS.))	243	L15		
L14	(((709/213)!.CCLS.))	502	L14		
L13	(((709/204)!.CCLS.))	640	L13		
L12	(((709/203)!.CCLS.))	2462	L12		
L11	(((709/100)!.CCLS.))	603	L11		
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L8	(((707/204)!.CCLS.))	540	L8		
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L33: Entry 12 of 22 File: USPT Jul 2, 2002

US-PAT-NO: 6415373

DOCUMENT-IDENTIFIER: US 6415373 B1

TITLE: Computer system and process for transferring multiple high bandwidth streams of data between multiple storage units and multiple applications in a scalable and reliable manner

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Peters; Eric C. Carlisle MA

Rabinowitz; Stanley Westford MA
Jacobs; Herbert R. Hudson NH
Fasciano; Peter J. Natick MA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Avid Technology, Inc. Tewksbury MA 02

APPL-NO: 09/ 006070 [PALM]
DATE FILED: January 12, 1998

INT-CL: [07] $\underline{G06}$ \underline{F} $\underline{12/00}$, $\underline{G06}$ \underline{F} $\underline{13/372}$

US-CL-ISSUED: 711/167; 711/114, 714/6, 709/233, 725/92, 725/93, 707/205 US-CL-CURRENT: 711/167; 707/205, 709/233, 711/114, 714/6, 725/92, 725/93

Search Selected

FIELD-OF-SEARCH: 709/102, 709/105, 709/104, 709/225, 709/226, 709/231, 709/232, 709/233, 709/240, 709/217, 709/219, 711/100, 711/112, 711/114, 711/133, 711/167, 711/162, 711/170, 714/6-8, 714/18, 348/7, 725/92, 725/97, 725/101, 707/104, 707/200, 707/201, 707/205

PRIOR-ART-DISCLOSED:

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	5371852	December 1994	Attanasio et al.	709/245
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$\overline{\Box}$	5423037	June 1995	Hvasshovd	707/202

П	5434994	July 1995	Shaheen et al.	709/223
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	5544347	August 1996	Yanai et al.	711/162
	5546118	August 1996	Ido	725/115
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$\bar{\Box}$	5960446	September 1999	Schmuck et al.	707/205
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ART-UNIT: 2186

PRIMARY-EXAMINER: Kim; Matthew

ASSISTANT-EXAMINER: Bataille; Pirre-Michel

ABSTRACT:

Multiple applications request data from multiple storage units over a computer network. The data is divided into segments and each segment is distributed randomly on one of several storage units, independent of the storage units on which other segments of the media data are stored. At least one additional copy of each segment also is distributed randomly over the storage units, such that each segment is stored on at least two storage units. This random distribution of multiple copies of segments of data improves both scalability and reliability. When an application requests a selected segment of data, the request is processed by the storage unit with the shortest queue of requests. Random fluctuations in the load applied by multiple applications on multiple storage units are balanced nearly equally over all of the storage units. This combination of techniques results in a system which can transfer multiple, independent high-bandwidth streams of data in a scalable manner in both directions between multiple applications and multiple storage units.

5 Claims, 23 Drawing figures

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L33: Entry 22 of 22

File: USPT

Jan 4, 1994

US-PAT-NO: 5276867

DOCUMENT-IDENTIFIER: US 5276867 A

TITLE: Digital data storage system with improved data migration

DATE-ISSUED: January 4, 1994

INVENTOR-INFORMATION:

STATE ZIP CODE COUNTRY CITY NAME Kenley; Gregory Northboro MA Ericson; George Schrewsbury MA Fortier; Richard Acton MA Holland; Chuck MA Northboro Mastors; Robert Ayer MA Pownell; James Natick MA MA Taylor; Tracy Upton Wallace; John Franklin MA Webber; Neil Hudson MA

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Epoch Systems, Inc. Westborough MA 02

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FIELD-OF-SEARCH: 395/425, 395/600, 395/200, 395/575, 371/10.1

PRIOR-ART-DISCLOSED:

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Search Selected | Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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4429363	January 1984	Duke et al.	364/200
4771375	September 1988	Beglin et al.	395/425
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pp. 269-319.

106-132.

ART-UNIT: 237

PRIMARY-EXAMINER: Kulik; Paul V.

ABSTRACT:

A digital data storage apparatus has primary, secondary and backing storage elements characterized by respectively longer access times. A level detector signals when the quantity of data in the secondary store exceeds a threshold amount. A data migrator responds by moving selected data files from the secondary store to the backing store. The apparatus also includes a baseline back-up element that stores archive copies of a set of selected data files. A full back-up element stores archive copies of those files that, (1) were originally copied to the baseline back-up set but have since changed, or (2) are not otherwise within the baseline back-up set. For those files which were originally copied to the baseline back-up set and which have not changed, the full back-up element stores pointers indicating locations of the respective files in the baseline back-up set.

35 Claims, 5 Drawing figures